

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 201130.407/PL08243.001	APPLICATION NO. 09/692,945
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Nobuyuki Itoh and W. Michael Kavanaugh	
		FILING DATE October 20, 2000	GROUP ART UNIT 1645

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AR	AA	5,766,883	06/16/98	Ballance et al. ✓	435	69.7	
	AB	5,876,969	03/02/99	Fleer et al. ✓	435	69.7	
AR	AC	6,110,893	08/29/00	Hu et al. ✓	514	12	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
AR	AD	WO 97/24445	07/10/97	WIPO ✓	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	AE	Aaronson et al., "Keratinocyte Growth Factor: A Fibroblast Growth Factor Family Member With Unusual Target Cell Specificity," <i>Annals of the New York Academy of Sciences</i> 638:62-77, 1991.
	AF	Akashi, "Synonymous Codon Usage in <i>Drosophila Melanogaster</i> : Natural Selection and Translational Accuracy," <i>Genetics</i> 136(3):927-935, March 1994.
	AG	Baird and Klagsbrun, "The Fibroblast Growth Factor Family," <i>Cancer Cells</i> 3(6):239-243, June 1991.
	AH	Baloh et al., "Artemin, a Novel Member of the GDNF Ligand Family, Supports Peripheral and Central Neurons and Signals through the GFR α 3-RET Receptor Complex," <i>Neuron</i> 21:1291-1302, December 1998.
	AI	Belluardo et al., "Comparative Localization of Fibroblast Growth Factor Receptor-1, -2, and -3 mRNAs in the Rat Brain: In Situ Hybridization Analysis," <i>J. Comparative Neurology</i> 379:226-246, 1997.
	AJ	Blunt et al., "Overlapping Expression and Redundant Activation of Mesenchymal Fibroblast Growth Factor (FGF) Receptors by Alternatively Spliced FGF-8 Ligands," <i>The Journal of Biological Chemistry</i> 272(6):3733-3738, February 7, 1997.
	AK	Bracci-Laudiero et al., "Increased Levels of NGF in Sera of Systemic Lupus Erythematosus Patients," <i>NeuroReport</i> 4(5):563-565, May 1993.
AR	AL	Burgess and Maciag, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins," <i>Annu. Rev. Biochem.</i> 58:575-606, 1989.

EXAMINER

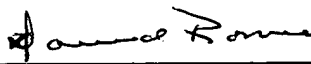
James Rome

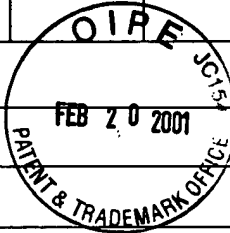
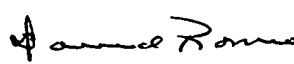
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BA							
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION	
						YES	NO
BB							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
✓	PR	BC	Colvin et al., "Skeletal Overgrowth and Deafness in Mice Lacking Fibroblast Growth Factor Receptor 3," <i>Nature Genetics</i> 12(4):390-397, April 1996.				
✓		BD	Coulter et al., "The <i>FGF6</i> Gene Within the <i>FGF</i> Multigene Family," <i>Annals of the New York Academy of Sciences</i> 638:53-61, 1991.				
✓		BE	Crossley and Martin, "The Mouse <i>Fgf8</i> Gene Encodes a Family of Polypeptides and Is Expressed In Regions That Direct Outgrowth and Patterning in the Developing Embryo," <i>Development</i> 121:439-451, 1995.				
✓		BF	Davis et al., "Enzyme-Polyethylene Glycol Adducts: Modified Enzymes with Unique Properties," <i>Enzyme Engineering</i> 4:169-173.				
✓		BG	Dazert et al., "Focal Delivery of Fibroblast Growth Factor-1 by Transfected Cells Induces Spiral Ganglion Neurite Targeting In Vitro," <i>J. of Cellular Physiology</i> 177:123-129, 1998.				
✓		BH	Dickson et al., "Expression, Processing, and Properties of int-2," <i>Annals of the New York Academy of Sciences</i> 638:18-26, 1991.				
✓		BI	Dunnett and Björklund, "Prospects for New Restorative and Neuroprotective Treatments in Parkinson's Disease," <i>Nature</i> 399(supplemental):A32-A39, June 24, 1999.				
✓		BJ	Elde et al., "Prominent Expression of Acidic Fibroblast Growth Factor in Motor and Sensory Neurons," <i>Neuron</i> 7(3):349-364, September 1991.				
✓		BK	Emoto et al., "Basic Fibroblast Growth Factor (FGF) in the Central Nervous System: Identification of Specific Loci of Basic FGF Expression in the Rat Brain," <i>Growth Factors</i> 2:21-29, 1989.				
✓		BL	Ernfors et al., "Identification of Cells in Rat Brain and Peripheral Tissues Expressing mRNA for Members of the Nerve Growth Factor Family," <i>Neuron</i> 5(4):511-526, October 1990.				
✓	PR	BM	Fallon and Loughlin, <i>The Rat Nervous System</i> , 2nd ed., Academic Press, California, 1995, Chapter 12, "Substantia Nigra," pp. 215-237.				
EXAMINER <i>James Rono</i>				DATE CONSIDERED 9/22/3			
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CA							
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO	
CB							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
✓	4R	CC	Friden et al., "Blood-Brain Barrier Penetration and in Vivo Activity of an NGF Conjugate," <i>Science</i> 259:373-377, January 15, 1993.				
✓		CD	Gemel et al., "Short Communication: Structure and Sequence of Human <i>FGF8</i> ," <i>Genomics</i> 35(1):253-257, July 1, 1996.				
✓		CE	Ghosh et al., "Molecular Cloning and Characterization of Human <i>FGF8</i> Alternative Messenger RNA Forms," <i>Cell Growth & Differentiation</i> 7(10):1425-1434, October 1996.				
✓		CF	Goldfarb et al., "Expression and Possible Functions of the FGF-5 Gene," <i>Annals of the New York Academy of Sciences</i> 638:38-52, 1991.				
✓		CG	Gospodarowicz and Cheng, "Heparin Protects Basic and Acidic FGF From Inactivation," <i>J. of Cellular Physiology</i> 128:475-484, 1986.				
✓		CH	Gospodarowicz, "Isolation and Characterization of Acidic and Basic Fibroblast Growth Factor," <i>Methods in Enzymology</i> 147(B):106-119, 1987.				
✓		CI	Haub et al., "Expression of the Murine Fibroblast Growth Factor 5 Gene in the Adult Central Nervous System," <i>Proc. Natl. Acad. Sci. USA</i> 87:8022-8026, October 1990.				
✓		CJ	Hoshikawa et al., "Structure and Expression of a Novel Fibroblast Growth Factor, FGF-17, Preferentially Expressed in the Embryonic Brain," <i>Biochemical and Biophysical Research Communications</i> 244(1):187-191, March 6, 1998.				
✓		CK	Hyman et al., "BDNF is a Neurotrophic Factor for Dopaminergic Neurons of the Substantia Nigra," <i>Nature</i> 350(6315):230-232, March 21, 1991.				
✓		CL	Hyman et al., "Overlapping and Distinct Actions of Neurotrophins BDNF, NT-3, and NT-4/5 on Cultured Dopaminergic and GABAergic Neurons of the Ventral Mesencephalon," <i>J. of Neuroscience</i> 14(1):335-347, January 1994.				
✓	4R	CM	Laudiero et al., "Multiple Sclerosis Patients Express Increased Levels of β -Nerve Growth Factor in Cerebrospinal Fluid," <i>Neuroscience Letters</i> 147:9-12, 1992.				
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DA							
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						YES	NO
DB							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
4R	DC	Lin et al., "GDNF: A Glial Cell Line—Derived Neurotrophic Factor for Midbrain Dopaminergic Neurons," <i>Science</i> 260:1130-1132, May 21, 1993.					
✓	DD	Lloyd and Sharp, "Evolution of Codon Usage Patterns: The Extent and Nature of Divergence Between <i>Candida Albicans</i> and <i>Saccharomyces Cerevisiae</i> ," <i>Nucleic Acids Research</i> 20(20):5289-5295, 1992.					
✓	DE	Lopez et al., "Basic Fibroblast Growth Factor in a Porcine Model of Chronic Myocardial Ischemia: A Comparison of Angiographic, Echocardiographic and Coronary Flow Parameters," <i>The J. of Pharmacology and Experimental Therapeutics</i> 282(1):385-390, July 1997.					
✓	DF	Malumbres et al., "Codon Preference in Corynebacteria," <i>Gene</i> 134:15-24, 1993.					
✓	DG	McQueen et al., "Non-Insulin-Dependent Diabetic Microangiopathy in the Inner Ear," <i>The J. of Laryngology and Otology</i> 113:13-18, January 1999.					
✓	DH	McWhirter et al., "A Novel Fibroblast Growth Factor Gene Expressed in the Developing Nervous System is a Downstream Target of the Chimeric Homeodomain Oncoprotein E2A-Pbx1," <i>Development</i> 124:3221-3232, 1997.					
✓	DI	Millbrandt et al., "Persephin, a Novel Neurotrophic Factor Related to GDNF and Neurturin," <i>Neuron</i> 20(2):245-253, February 1998.					
✓	DJ	Miyake et al., "Structure and Expression of a Novel Member, FGF-16, of the Fibroblast Growth Factor Family," <i>Biochemical and Biophysical Research Communications</i> 243(1):148-152, February 4, 1998.					
✓	DK	Miyamoto et al., "Molecular Cloning of a Novel Cytokine cDNA Encoding the Ninth Member of the Fibroblast Growth Factor Family, Which Has a Unique Secretion Property," <i>Molecular and Cellular Biology</i> 13(7):4251-4259, July 1993.					
✓, 4R	DL	Nielsen et al., "Identification of Prokaryotic and Eukaryotic Signal Peptides and Prediction of Their Cleavage Sites," <i>Protein Engineering</i> 10:1-6, 1997.					
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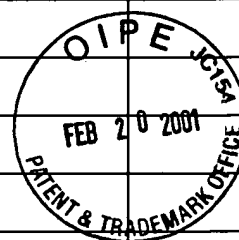
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EB							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
✓	AR	EC	Nishimura et al., "Structure and Expression of a Novel Human FGF, FGF-19, Expressed In the Fetal Brain," <i>Biochimica et Biophysica Acta</i> 1444(1):148-151, 1999.				
✓		ED	Ohbayashi et al., "Structure and Expression of the mRNA Encoding a Novel Fibroblast Growth Factor, FGF-18," <i>The J. of Biological Chemistry</i> 273(29):18161-18164, July 17, 1998.				
✓		EF	Ohuchi et al., "The Mesenchymal Factor, FGF10, Initiates and Maintains the Outgrowth of the Chick Limb Bud Through Interaction With FGF8, An Apical Ectodermal Factor," <i>Development</i> 124:2235-2244, 1997.				
✓		EG	Otten and Gadiant, "Neurotrophins and Cytokines—Intermediaries Between the Immune and Nervous Systems," <i>Int. J. Devl. Neuroscience</i> 13(3/4):147-151, 1995.				
✓		EH	Ozawa et al., "Expression of the Fibroblast Growth Factor Family and Their Receptor Family Genes During Mouse Brain Development," <i>Molecular Brain Research</i> 41:279-288, 1996.				
✓		EI	Pickles and van Heumen, "The Expression of Messenger RNAs Coding for Growth Factors, Their Receptors, and eph-Class Receptor Tyrosine Kinases in Normal and Ototoxically Damaged Chick Cochleae," <i>Developmental Neuroscience</i> 19:476-487, 1997.				
✓		EJ	Pochon et al., "Neuronal GDNF Expression in the Adult Rat Nervous System Identified by <i>In Situ</i> Hybridization," <i>European J. of Neuroscience</i> 9(3):463-471, March 1997.				
✓		EK	Reich-Slotky et al., "Chimeric Molecules Between Keratinocyte Growth Factor and Basic Fibroblast Growth Factor Define Domains That Confer Receptor Binding Specificities," <i>The J. of Biological Chemistry</i> 270(50):29813-29818, December 15, 1995.				
✓	AR	EL	Schneider and Benner, "Building Blocks for Oligonucleotide Analogs with Dimethylene-Sulfide, Sulfoxide, and -Sulfone Groups Replacing Phosphodiester Linkages," <i>Tetrahedron Letters</i> 31(3):335-338, 1990.				
EXAMINER <i>A. J. Rome</i>				DATE CONSIDERED 4/22/3			
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FB							
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
✓	FR	FC	Scully and Otten, "NGF: Not Just for Neurons," <i>Cell Biology International (Special Issue)</i> 19(5):459-469, 1995.				
✓	FD	FD	Smallwood et al., "Fibroblast Growth Factor (FGF) Homologous Factors: New Members of the FGF Family Implicated in Nervous System Development," <i>Proc. Natl. Acad. Sci. USA</i> 93:9850-9857, September 1996.				
✓	FE	FE	Tanaka et al, "Human Androgen-Induced Growth Factor in Prostate and Breast Cancer Cells: Its Molecular Cloning and Growth Properties," <i>FEBS Letters</i> 363(3):226-230, 1995.				
✓	FF	FF	Tanaka et al., "Cloning and Characterization of An Androgen-Induced Growth Factor Essential for the Androgen-Dependant Growth of Mouse Mammary Carcinoma Cells," <i>Proc. Natl. Acad. Sci. USA</i> 89:8928-8932, October 1992.				
✓	FG	FG	Uhlmann and Peyman, "Antisense Oligonucleotides: A New Therapeutic Principle," <i>Chemical Reviews</i> 90(4):544-548, June 1990.				
✓	FH	FH	Walicke, "Basic and Acidic Fibroblast Growth Factors Have Trophic Effects on Neurons from Multiple CNS Regions," <i>J. of Neuroscience</i> 8(7):2618-2627, July 1988.				
✓	FI	FI	West and Iglewski, "Codon Usage in <i>Pseudomonas Aeruginosa</i> ," <i>Nucleic Acids Research</i> 16(19):9323-9335, 1988.				
✓	FJ	FJ	Wilke et al., "Expression of Fibroblast Growth Factor Receptors (FGFR1, FGFR2, FGFR3) in the Developing Head and Face," <i>Developmental Dynamics</i> 210:41-52, 1997.				
✓	FK	FK	Woodward et al., "Nuclear and Cytoplasmic Localization of Basic Fibroblast Growth Factor in Astrocytes and CA2 Hippocampal Neurons," <i>J. of Neuroscience</i> 12(1):142-152, January 1992.				
✓	FL	FL	Yamamoto et al., "Structure and expression of a novel isoform of mouse FGF homologous factor (FHF)-4," <i>Biochimica et Biophysica Acta</i> 1398:38-41, 1998.				
EXAMINER <i>A. and R.</i>				DATE CONSIDERED 9/22/3			
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					YES	NO
	GK					
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	PR	GO	Yamasaki et al., "Structure and Expression of the Rat mRNA Encoding a Novel Member of the Fibroblast Growth Factor Family," <i>The J. of Biological Chemistry</i> 271(27):15918-15921, July 5, 1996.
✓		GP	Yoshida et al., "Characterization of the <i>hst-1</i> Gene and Its Product," <i>Annals of the New Academy of Sciences</i> 638:27-37, 1991.
✓	PR	GQ	Zheng et al., "Induction of Cell Proliferation by Fibroblast and Insulin-Like Growth Factors in Pure Rat Inner Ear Epithelial Cell Cultures," <i>The J. of Neuroscience</i> 17(1):216-226, January 1, 1997.

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Sheet 1 of 1

FORM PTO-1449
(REV. 7-80)

MAY 21 2001

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
201130.407/PP-16770.001

APPLICATION NO.
09/692,945

**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**
(Use several sheets if necessary)

APPLICANTS
Nobuyuki Itoh and W. Michael Kavanaugh

FILING DATE
October 20, 2000

GROUP ART UNIT
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FOREIGN PATENT DOCUMENTS

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	AL	WO 01/07595	02/01/01	WIPO		
✓R	AM	WO 01/18209	03/15/01	WIPO		
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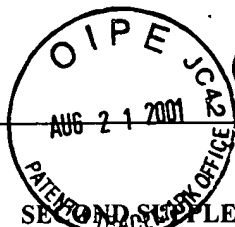
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James R. Rame

DATE CONSIDERED

7/22/03

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09/692,945**SECOND SUPPLEMENTAL
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					YES	NO
AR	AG	WO 00/54813	09/21/00	WIPO		
	AH					
	AI					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	AJ	Genbank database, Accession No. AB020858, May 21, 1999.
	AK	Kirikoshi et al., "Molecular Cloning and Characterization of Human FGF-20 on Chromosome 8p21.3-p22," <i>Biochemical and Biophysical Research Communications</i> 274(2):337-343, August 2, 2000.
	AL	Koga et al., "Characterization of a Novel Member of the FGF Family, XFGF-20, in <i>Xenopus laevis</i> ," <i>Biochemical and Biophysical Research Communications</i> 261(3):756-765, August 11, 1999.
AR	AM	Ohmachi et al., "FGF-20, a Novel Neurotrophic Factor, Preferentially Expressed in the Substantia Nigra Pars Compacta of Rat Brain," <i>Biochemical and Biophysical Research Communications</i> 277(2):355-360, October 22, 2000.
	AN	

EXAMINER

David Rocco

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